

Title (en)

Expandable sealant composition containing a grafted olefinic polymer

Title (de)

Schaumfähige Dichtungsmittelzusammensetzung mit einem Olefinpropfpolymer

Title (fr)

Composition d'étanchéité expansible contenant un polymère oléfinique greffé

Publication

EP 1090813 B1 20050126 (EN)

Application

EP 00120829 A 20000925

Priority

US 40782099 A 19990928

Abstract (en)

[origin: EP1090813A1] An expansion temperature tolerant, dry, expandable sealant and baffle is provided which is capable of undergoing a desired degree of full expansion when an automobile body containing the sealant and baffle product is conveyed through a conventional bake and/or curing oven. The sealant and baffle product is fully expandable over a wider temperature and time range than heretofore available expandable baffle products. The composition for preparation of a molded expandable sealant and baffle component includes a grafted anhydride polymer, an epoxide terminated additive polymer which is capable of reacting with the grafted anhydride polymer and a blowing agent. The anhydride polymer and the epoxide terminated polymer react to a limited degree in the absence of a catalyst when the baffle product is heated in the bake and/or curing oven, thus providing an improved networked and bridged backbone polymer which effectively entraps gas emanating from the blowing agent, without adversely affecting the flexibility and expansion characteristics of the sealant baffles.

IPC 1-7

B60R 13/08; **C08J 9/00**; **C08J 9/10**

IPC 8 full level

C08J 9/10 (2006.01); **B60R 13/08** (2006.01); **C08G 59/40** (2006.01); **C08K 3/00** (2006.01); **C08K 7/20** (2006.01); **C08L 63/00** (2006.01); **C08L 101/00** (2006.01); **C09K 3/10** (2006.01)

CPC (source: EP KR US)

B60R 13/08 (2013.01 - EP US); **C08J 9/00** (2013.01 - KR); **C09K 3/10** (2013.01 - EP US); **C09K 2200/047** (2013.01 - EP US); **C09K 2200/0607** (2013.01 - EP US); **C09K 2200/062** (2013.01 - EP US); **C09K 2200/0622** (2013.01 - EP US); **C09K 2200/0635** (2013.01 - EP US); **C09K 2200/0687** (2013.01 - EP US)

Cited by

EP1966267B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1090813 A1 20010411; **EP 1090813 B1 20050126**; AT E287808 T1 20050215; AU 7611000 A 20010430; DE 60017663 D1 20050303; DE 60017663 T2 20060330; ES 2237370 T3 20050801; JP 2003510434 A 20030318; JP 4124591 B2 20080723; KR 100546093 B1 20060124; KR 20020063870 A 20020805; US 6150428 A 20001121; US 6281260 B1 20010828; WO 0123461 A1 20010405

DOCDB simple family (application)

EP 00120829 A 20000925; AT 00120829 T 20000925; AU 7611000 A 20000922; DE 60017663 T 20000925; ES 00120829 T 20000925; JP 2001526604 A 20000922; KR 20027004008 A 20020328; US 0026209 W 20000922; US 40782099 A 19990928; US 60731100 A 20000630